

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

ORDER NO. 88-096
UPDATED WASTE DISCHARGE REQUIREMENTS

UNOCAL CHEMICALS DIVISION
UNOCAL CORPORATION
RODEO, CONTRA COSTA COUNTY

The California Regional Water Quality Control Board, San Francisco Bay Region (hereinafter called the Board) finds that:

1. The Board on July 15, 1987 adopted Order No. 87-082, Waste Discharge Requirements for Unocal Chemicals Division of Unocal Corporation, a coke calcining operation. The facility operates two surface impoundments which receive wastewater consisting of stormwater runoff and make up water, water used for dust control and minor amounts of cooling tower blowdown. The first of these impoundments is concrete lined and serves to collect and allow recovery of coke particles. This pond overflows into pond 2, a clay lined pond from which the water is recycled for plant operations. The Order requires the discharger to comply with or apply for exemptions to the construction, siting, and operating requirements for the surface impoundments in accordance with Title 23, Chapter 3, Subchapter 15 of the California Administrative Code, hereinafter called Subchapter 15.
2. Specification B.2. of Order 87-082 states that the surface impoundments shall be operated to ensure that wastes will be a minimum of five feet above the highest anticipated elevation of the underlying groundwater. An exception to this may be granted by the Board based on a demonstration submitted by the discharger pursuant to Section 2510(b) and (c) of Subchapter 15.
3. Provision C.3., a. and b. of Order No. 87-082 have been met by the discharger by data submitted to demonstrate compliance with Prohibition A.3. and Specifications B.1 through B.11. in his application for an exception.
4. The discharger submitted a letter and supporting data, dated April 14, 1988 requesting an exemption to Specification B.2. and B.8. The discharger demonstrated that compliance with the geologic siting criteria of Section 2530 (c) of Subchapter 15, as stated in Specification B.2. is not feasible because it is unreasonably burdensome and will cost substantially more than engineered alternatives. An exception to the liner requirement of Specification B.8 was requested in accordance with Specification B.11., based on data demonstrating that no degradation of subsurface waters is occurring and on unreasonable cost. Proposed revised management practices will meet the objectives contained in Section 2510 (b) of Subchapter 15, they are consistent with the performance goal of Section 2530 (c) and 2540, liner requirements, and afford equivalent protection against water

quality impairment.

5. The discharger proposes to institute revised management practices for better control of settled material and overflow from the concrete pond. He also will perform pH monitoring of waters in the earthen lined pond on a schedule as set forth, to control metals solubility. Further, the discharger will dredge the earthen lined pond when sludge deposits reach a depth of eight to twelve inches, and measure sludge depth quarterly.
6. The discharger will install five new ground water monitoring wells in the shallowest aquifer, and three additional monitoring wells to monitor near surface lateral ground water movement. The discharger will properly abandon the presently existing four monitoring wells.
7. The Board adopted a revised Water Quality Control Plan for the San Francisco Bay Basin (Basin Plan) on December 17, 1986, and this Order implements the water quality objectives in that Plan.
8. This Order governs maintenance and updating of an existing facility which does not have a significant effect on the environment pursuant to Section 21084 (a) of the California Environmental Quality Control Act and Section 15301 of the Resource Code.
9. The Board has notified the discharger and interested agencies and persons of its intent to issue waste discharge requirements, and has provided them with an opportunity to submit their written views and recommendations.
10. The Board heard and considered in a public meeting all comments pertaining to the discharge.

IT IS HEREBY ORDERED, that this Board's Order No. 87-082 be updated as follows.

- A. The following shall be added to Provision C.1.

The discharger shall follow revised operation management practices as set forth in his proposal of April 18, 1988.

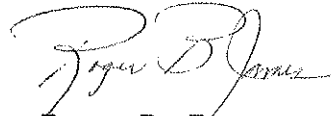
- B. Provision C.3.c. and d. is amended to read:

- c. The discharger shall construct a total of eight new monitoring wells as set forth in his proposal of April 18, 1988.
- d. The discharger shall abandon existing wells in an acceptable manner.

- C. Add a provision C. 15 which reads:

- 15 The discharger shall comply with Specifications B.1. through B.11. excluding those exceptions granted in this order. The discharger shall submit a complete report documenting compliance with proposed changes and additions by September 1, 1988.

I, Roger B. James, Executive Officer, do hereby certify the foregoing is a full, true, and correct copy of an order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 15, 1988.



Roger B. James
Executive Officer

STATE OF CALIFORNIA
CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION

UPDATED SELF MONITORING PROGRAM TO

ORDER NO. 88-096

FOR

UNOCAL CHEMICALS DIVISION

UNOCAL CORPORATION

RODEO, CONTRA COSTA COUNTY

PART B

A. DESCRIPTION OF OBSERVATION AND SAMPLING STATIONS

1. Land Observation and Sampling Stations

<u>Station</u>	<u>Description</u>
A - 1 thru A-12	Stations at 100 Foot intervals around the perimeter of recycle/recovery basin
L - 1, L - 2	Stations on north and south walls of concrete settling basins

2. Groundwater Monitoring Locations (Wells)

<u>Station</u>	<u>Description</u>
MW - 88-1	North of Recovery / Recycle Basin
MW - 88-2	East of Recovery/Recycle Basin
MW - 88-3	South of Recovery/Recycle Basin
MW - 88-4	Southwest Corner of Recovery Basin
MW - 88-5	Northwest corner of Recovery Basin

3. Unsaturated Zone Wells

<u>Station</u>	<u>Description</u>
UZM 88-1	North of Recovery/Recycle Basin
UZM 88-2	Southeast of Recovery/Recycle Basin
UZM 88-3	West of Recovery/Recycle Basin

4. Surface Water Sampling.

Creek	Northwest Corner of Recycle/Recovery Pond
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B. SCHEDULE OF OBSERVATIONS AND SAMPLING

1.	<u>Station</u>	<u>Frequency</u>	<u>Observation</u>
	A - 1 thru A-12	Shift	Inspection to determine presence of overflow, of wastes leaving the waste management units.
	Recovery/ recycle basin	Daily	Observe available pond freeboard
	A - 4	Daily	pH measurement of recycle/ recovery basin
	L - 1, L - 2	Daily	Measurement of settled solids in concrete basin

2. Sampling and Analysis

The following is a list of standard analytic techniques and analyses for metals to be performed.

Metals

Nickel, Vanadium, Zinc, Sodium, Potassium EPA 6010

General Mineral Content.

Bicarbonate	310.1
Sulphate	300
Total Phosphorus	365.2
Total Organic Carbon	415.1
Total Dissolved Solids	160.1
Conductivity	9050
TPH Diesel	3510
TPH Gasoline	5030

Samples are to be collected and analyzed semi-annually beginning in October and in March or April in conformity with Article 2550.9(b)(3) of Chapter 15.

C. REPORTING OF OBSERVATIONS AND SAMPLING RESULTS

1. Self monitoring reports containing data on monitoring, static water level measurements, analytic results and pond freeboard will be filed semi-annually, on November 30 and May 30 of each year. The reports will contain maps of the recovery/recycle basins and all well locations and piezometric surface elevations together with pond water data. The report submitted in the spring of each year should also contain the annual summary report and data interpretation including graphs of data as specified in Article 5, Section 2550.7 of Chapter 15.



Steven R. Ritchie
Executive Officer

10/25/94

Dated

Attachments: Site Location Map
Recycle/Recovery Basin and Well Locations

Union Oil Company of California dba Unocal
76 Products Company
Contra Costa Carbon Plant

